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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,521	09/20/2000	Jun Koyama	SEL 209	6933
7590 07/18/2007 Cook Alex McFarron Manzo Cummings & Mehler Ltd			EXAMINER	
Suite 2850 200 West Adams Street Chicago, IL 60606		NGUYEN, KIMNHUNG T		
		ART UNIT	PAPER NUMBER	
			2629	
			<u></u>	
			MAIL DATE	DELIVERY MODE
			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/666,521	KOYAMA, JUN			
Office Action Summary	Examiner	Art Unit			
	Kimnhung Nguyen	2629			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 Ap					
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,				
4) ☐ Claim(s) <u>1-36</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-36</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/17/07 has been entered.
- 2. This application has been examined. The claim 1-36 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3 9-12, 18-22, 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) in view of Shioya et al. (US 6,091,382).

Regarding claims 1, 9, 19 and 28, Yamada et al. discloses in figs. 1, 5, an electronic device comprising an EL display device (11) including a thin film transistor (12); an EL element (11) with the pixel electrode as a cathode (11a, see col. 18, lines 66-67 and col. 19, lines 1-3);

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and an insulating layer (14) is formed on the driver transistor 12 and the selection transistor 13(see col. 7, lines 57-66), an applying means (see drain driver 4) for applying an analog image signal to the EL element; and a correcting means for gamma correcting (2c, fig. 5) the analog image signal; and wherein the thin film transistor, the pixel electrode, the EL element, the insulating layer, the applying means and the correcting means are formed over a same substrate.

Yamada et al. does not disclose an insulating layer over the EL element.

However, Shioya et al. discloses in figs. 21, 22, a display device 226 comprises a transparent insulating film (227) formed on an EL display element for the display light (see fig. 22, see transparent insulating 227 formed on the third and fourth organic layers 222,223 uniformly contains a luminescent material; for emitting white light, see col. 18, lines 36-50).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the insulating film formed on the EL display element as taught by Shioya into the EL display of electronic device of Yamada et al. for producing the claimed invention because this would provide the light generated near the interface between the fourth organic layer and third organic layer, and allow injection of electrons into the third organic layer, and allow the white light traveling toward the color filter (see col. 18, lines 48-56).

Regarding claims 2, 10, 20, 29, Yamada et al. discloses further comprising a memory for storing data for the gamma-correcting (see table memory section 2d, and 2e, see col. 10, lines 43-46, and 66-67 and col. 11, lines 1-3).

Regarding claims 3, 12, 22 and 31, Yamada et al. discloses a color filter being formed at position corresponding to the pixel electrode (see col. 22, lines 15-23).

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Regarding claims 11, 18, 21 and 30, Yamada et al. discloses the EL display device is used in an electronic device selected form the group consisting of an EL display.

5. Claims 5-7, 14-16, 24-26 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) and Ishioya et al. (US 6,091,382) and in view of Yamazaki et al. (US 6,388,652).

Regarding claims 5-6,14-15, 24-25 and 33-34, Yamada et al. and Ishioya et al. do not disclose the gamma-correcting amplifies a signal of red, or gamma-correcting attenuates a signal of blue or green. Yamazaki et al. discloses that wherein the gamma-correcting amplifies a signal of red and inherent of attenuates a signal of blue or green (see figure 14, column 18, lines 23-31).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using the gamma-correcting amplifies a signal of red and inherent of attenuates a signal of blue or green as taught by Yamazaki et al. into the system of Yamada et al. and Inoguchi et al. because this would provide the analog signals have processed to complete, and these signals are transmitted to the source driving circuit of the system.

Regarding claims 7, 16, 26 and 35, Yamada et al. and Ishioya et al. do not disclose the gamma-correcting is independently applied for each of signals of blue, green and red. Yamazaki et al. discloses the gamma-correcting is independently applied for each of signals of blue, green and red (see figure 14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using gamma-correcting is independently applied for each of signals of blue, green and red as taught by Yamazaki et al. into the system of Yamada et al. and Inoguchi et al. because this would provide an improving the EL display

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having correction values for driving conditions of individual surface of the electron beam, by applying correction independently.

6. Claims 8, 17, 27 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) and Shioya et al. (US 6,091382) as applied to claims 1,9,19 and 28, in view of Yamazaki et al. (US patent 6,388,652 cited by Applicant), and further in view of Yamazaki et al. (US patent 6,445,005).

Yamada et al. and Shioya et al. and Yamazaki (6,388,652) disclose every feature of the claimed invention as discussed above, however, they do not disclose the EL element comprises a luminescent layer comprising a polymer organic material. Yamazaki et al. (6,445,005) disclose an EL layer (45) is formed and made of polymer type organic material (see column 10, lines 37-40).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the an EL layer is formed and made of polymer type organic material as taught by Yamazaki et al. (6,445,005) into the device system of Yamada et al., Shioya et al. and Yamazaki et al. (6,388,652) because this would provide a light of white color to be a light emitting layer (see Yamazaki et al., 6445,005, see column 10, lines 62-63), and therefore, increasing the brightness of the display.

7. Claims 4, 13, 23 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) and Shioya et al. (US 6,091,382), and as applied to claims 1, 9, 19

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and 28 above, in view of Yamazaki et al. (US patent 6,388,652), and further in view of Choi et al. (US patent 6,583,577).

Yamada et al., Inoguchi et al. and Yamazaki (6,388,652) disclose every feature of the claimed invention as discussed above, however, they do not disclose the El element comprises a first pixel comprising a blue luminescent layer, a second pixel comprising a green luminescent layer, and a third pixel comprising a red luminescent layer. Choi et al. disclose in figures 2 and 4 an El element comprises a first pixel (B) comprising a blue luminescent layer, a second pixel (G) comprising a green luminescent layer, and a third pixel (R) comprising a red luminescent layer (see first to third EL diodes, see figure 4, see abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the first, second and third pixels comprising blue, green and red by EL diodes as taught by Choi et al. into the system of Yamada et al., Shioya et al. and Yamazaki (6,388,652) because this would be independently driven without a complicatedly-designed data driving circuit, thereby simplifying the data driving circuit as well as reducing the product cost.

Response To Arguments

8. Applicant's arguments with respect to claims 1-36 filed on 4/24/07 have been considered but are most in view of the new ground(s) of rejection.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen

Patent Examiner

July 10, 2007